

OKLAHOMA MESONET/ARS QUALITY ASSURANCE REPORT

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In addition to the resolved tickets detailed below, the Mesonet Technicians performed communications upgrades at 35 sites, 21 bases, and 7 repeaters. Wow! Let's give the group a big round of applause (sound of loud clapping here). Also thanks to all in Operations for downloading many programs.

Radios and modems were replaced at the following ARS Micronet sites: A130, A131, A132, A133, A134, A135, A136, A137, and A144.

Mesonet QA Report for Standard Variables	
TAIR	Current: Resolved: #9036 BYAR Replaced sensor that had shown a 1 °C high bias during MesoComp test Resolved: #9037 PAUL Replaced sensor that had shown a 1 °C high bias during MesoComp test
RELH	Current: #9175 WILB Data erratic since rain on March 16 Resolved: #9075 EUFA Replaced sensor that reported humidity down to 5% each day
WDIR	Current: Resolved:
WSPD	Current: Resolved:
PRES	Current: #9107 PUTN Spikes and dips in humidity before and after periods of missing data Resolved:
SRAD	Current: #9382 BURN Maximum radiation is 150 to 200 W m ⁻² lower than nearby sites Resolved: #9070 OKMU Cleaned dome of pyranometer that had been visited by a bird
RAIN	Current: #9235 SHAW No tips reported on March 28 Current: #9236 BUTL Only one tip was reported on March 28 Resolved:
TA9M	Current: Resolved:
WS2M	Current: Resolved: #9044 WALT Replaced sensor that had starting threshold problems
TS10	Current:

	Resolved:
TB10	Current: #9105 SEIL Monthly QA shows that sensor has developed a 5 °C low bias Resolved: #9094 REDR Corrected depth of sensor that had heaved out of ground
TS05	Current: Resolved:
TB05	Current: #9270 MAYR Sensor has developed a 6 °C high bias Current: #9297 CALV Sensor has developed a 7 °C high bias Resolved: #9094 REDR Corrected depth of sensor that had heaved out of ground
TS30	Current: #9106 SALL Sensor has developed a 5 to 10 °C low bias Resolved:
TR05	Current: #9040 ALV2 Data is spiking and dipping Resolved: #8553 OKEM Downloaded new program to eliminate spikes and dips in data that was likely caused by 60 Hz interference
TR25	Current: #9073 BURN Data is erratic Resolved: #9104 APAC Replaced sensor that failed to heat Resolved: #9068 SKIA Replaced sensor that had been re-calibrated several times
TR60	Current: #9072 BURN Sensor is not heating Resolved:
TR75	Current: #9071 BURN Decommissioning 75 cm sensor that is not heating Current: #9064 ELRE Decommissioning 75 cm sensor that is not heating Resolved:

ARS QA Report	
TAIR	Current: Resolved:
RELH	Current: Resolved:
SRAD	Current: Resolved: Resolved:
RAIN	Current: Resolved:
TS05	Current: Resolved: #9076 A125 Replaced sensor that had developed a 5 deg C high bias

TS10	Current: Resolved: #9108 A164 Repaired sensor that had reported out-of-range temperatures
TS15	Current: Resolved:
TS30	Current: Resolved:

“Current” tickets are the unresolved tickets as of the last day of the month OR those tickets added based on the Monthly QA analysis.

“Resolved” tickets are the sensor problems that were fixed during the entire month.

Variable	Description
TAIR	Air temperature measured at 1.5 meters
RELH	Relative humidity measured at 1.5 meters
WDIR	Wind direction measured at 10 meters
WSPD	Wind speed measured at 10 meters
PRES	Pressure
SRAD	Incident solar radiation
RAIN	Rainfall
TA9M	Air temperature measured at 9 meters
WS2M	Wind speed measured at 2 meters
TS10	Soil temperature measured at 10 cm under native sod
TB10	Soil temperature measured at 10 cm under bare soil
TS05	Soil temperature measured at 5 cm under native sod
TB05	Soil temperature measured at 5 cm under bare soil
TS15	Soil temperature measured at 15 cm under native sod
TS30	Soil temperature measured at 30 cm under native sod
TR05	Soil moisture: Calibrated DeltaT measured at 5 cm under native sod
TR25	Soil moisture: Calibrated DeltaT measured at 25 cm under native sod
TR60	Soil moisture: Calibrated DeltaT measured at 60 cm under native sod